

ONC201 in H3 K27M-mutant Diffuse Glioma Following Radiotherapy (the ACTION Study)

Status: RECRUITING

Eligibility Criteria

Sex: ALL

Age:

Healthy Volunteers: This study is NOT accepting healthy volunteers

Inclusion Criteria:

1. Able to understand the study procedures and agree to participate in the study by providing written informed consent (by participant or legally authorized representative), and assent when applicable.
2. Body weight ≥ 10 kg at time of randomization.
3. Histologically diagnosed H3 K27M-mutant diffuse glioma (new diagnosis). Detection of a missense K27M mutation in any histone H3-encoding gene detected by testing of tumor tissue (immunohistochemistry [IHC] or next-generation sequencing [NGS] in a Clinical Laboratory Improvement Amendments [CLIA]-certified or equivalent laboratory). [Site to provide (as available): ≥ 11 unstained formalin-fixed paraffin-embedded (FFPE) slides from tumor tissue.]
4. At least one, high-quality, contrast-enhanced MRI of the brain obtained prior to starting radiotherapy for submission to sponsor's imaging vendor for central read. For participants who had a surgical resection, this scan must be post-resection; for participants who did not have a resection, this scan may be pre- or post-biopsy.
5. At least one, high-quality, contrast-enhanced MRI of the brain obtained 2 to 6 weeks after completion of frontline radiotherapy. If unable to obtain contrast-enhanced imaging due to lack of venous access after multiple attempts, a patient may still be eligible after collection of a nonenhanced MRI of the brain. [Site to also provide all available MRIs completed prior to initiating treatment with study intervention.]
6. Received frontline radiotherapy
 1. Initiated radiotherapy within 12 weeks from the initial diagnosis of H3 K27M-mutant diffuse glioma.
 2. Completed radiotherapy within 2 to 6 weeks prior to randomization
 3. Completed standard fractionated radiotherapy (eg. 54 to 60 Gy in 28 to 33 fractions given over approximately 6 weeks or hypofractionated radiotherapy (eg. 40 Gy in 15 fractions given over approximately 3 weeks).
7. Karnofsky Performance Status or Lansky Performance Status ≥ 70 at time of randomization.
8. Stable or decreasing dose of corticosteroids and anti-seizure medications for 7 days prior to randomization, if applicable. Stable steroid dose is defined as ≤ 2 mg/day increase (based on dexamethasone dose or equivalent dose of an alternative steroid).

Exclusion Criteria:

1. Primary spinal tumor.
2. Diffuse intrinsic pontine glioma (DIPG), defined as tumors with a pontine epicenter and diffuse involvement of the pons.
3. Evidence of leptomeningeal spread of disease or cerebrospinal fluid dissemination.
4. Any known concurrent malignancy.
5. New lesion(s) outside of the radiation field.
6. Received whole-brain radiotherapy.
7. Received proton therapy for glioma.
8. Use of any of the following treatments within the specified time periods prior to randomization:
 1. Dordaviprone (ONC201) or ONC206 at any time.
 2. Systemic bevacizumab (includes biosimilars) at any time since the initial diagnosis of H3 K27M-mutant diffuse glioma.
 3. Temozolomide within past 3 weeks.
 4. Tumor treating fields at any time.
 5. DRD2 antagonist within past 2 weeks.
 6. Any investigational therapy within past 4 weeks.
 7. Strong CYP3A4 inhibitors within 3 days.
 8. Strong CYP3A4 inducers (includes enzyme-inducing antiepileptic drugs) within 2 weeks.
9. Laboratory test results meeting any of the following parameters within 2 weeks prior to randomization:
 1. Absolute neutrophil count $< 1.0 \times 10^9/L$ or platelets $< 75 \times 10^9/L$.
 2. Total bilirubin $> 1.5 \times$ upper limit of normal (ULN) (participants with Gilbert's syndrome may be included with total bilirubin $> 1.5 \times$ ULN if direct bilirubin is $\leq 1.5 \times$ ULN).
 3. Aspartate aminotransferase (AST) or alanine aminotransferase (ALT) $> 2.5 \times$ ULN.
 4. Creatinine clearance ≤ 60 mL/min as calculated by the Cockcroft Gault equation (or estimated glomerular filtration rate < 60 mL/min/1.73 m²).
10. QTc > 480 msec (based on mean from triplicate electrocardiograms) during screening.
11. Known hypersensitivity to any excipients used in the study intervention formulation.
12. Pregnant, breastfeeding, or planning to become pregnant while receiving study intervention or within 3 months after the last dose. Participants of childbearing potential must have a negative serum pregnancy test within 72 hours prior to receiving the first dose of study intervention.

13. Uncontrolled intercurrent illness including, but not limited to, ongoing or active infection requiring systemic therapy or psychiatric illness/social situations that would limit compliance with study requirements.
14. Any other condition (eg, medical, psychiatric, or social) that, in the opinion of the investigator, may interfere with participant safety or the ability to complete the study according to the protocol.

Conditions & Interventions

Interventions:

DRUG: Dordaviprone (ONC201), DRUG: Dordaviprone (ONC201) + Placebo, OTHER: Placebo

Conditions:

H3 K27M, Glioma

Keywords:

H3 K27M, H3 K28M, H3 K27-altered, histone, H3F3A, HIST1H3B, HIST1H3C, H3.1, H3.3, DMG, thalamus, thalamic, midline

More Information

Description:

This is a randomized, double-blind, placebo-controlled, parallel-group, international, Phase 3 study in patients with newly diagnosed H3 K27M-mutant diffuse glioma to assess whether treatment with dordaviprone (ONC201) following frontline radiotherapy will extend overall survival and progression-free survival in this population. Eligible participants will have histologically diagnosed H3 K27M-mutant diffuse glioma and have completed standard frontline radiotherapy.

Contact(s): Lori Backus - Lori.Backus@cchmc.org

Principal Investigator:

Principal Investigator ID:

Phase: PHASE3

IRB Number:

System ID: NCT05580562

Thank you for choosing StudyFinder. Please visit <http://studyfinder.cchmc.org> to find a Study which is right for you and contact clinicalstudies@cchmc.org if you have questions or need assistance.