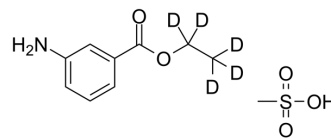


Tricaine-d5 methanesulfonate

Cat. No.:	HY-W011777S
Molecular Formula:	C ₁₀ H ₁₀ D ₅ NO ₅ S
Molecular Weight:	266.33
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tricaine-d5 methanesulfonate (MS-222-d5) is the deuterium labeled Tricaine-d5 methanesulfonate. Tricaine methanesulfonate (MS-222) is a commonly used anaesthetic agent for immobilization of aquatic species. Tricaine methanesulfonate, the most widely used anaesthetic in fish, has been shown to induce embryotoxic effects in zebrafish^{[1][2]}.

REFERENCES

- [1]. Félix LM, et al. Malformations and mortality in zebrafish early stages associated with elevated caspase activity after 24 h exposure to MS-222. *Toxicol Appl Pharmacol.* 2021;412:115385.
- [2]. Félix LM, et al. MS-222 induces biochemical and transcriptional changes related to oxidative stress, cell proliferation and apoptosis in zebrafish embryos. *Comp Biochem Physiol C Toxicol Pharmacol.* 2020;237:108834.

Caution: Product has not been fully validated for medical applications. For research use only.

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