
Product Data Sheet

Product Name: Gln-AMS TFA

Cat. No.: GC34331

Chemical Properties

Cas. No.

SMILES O[C@@H]([C@H]([C@H](N1C=NC2=C1N=CN=C2N)O3)O)[C@H]3COS(=O)(NC([C@@H](N)CCC(N)=O)=O)=O.OCC(F)(F)F=OFormula $C_{17}H_{23}F_3N_8O_{10}S$ M.Wt 588.47Solubility DMSO : ≥ 100 mg/mL (169.93 mM) Storage Store at $-20^{\circ}C$ General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Gln-AMS (TFA) is a type Ia aminoacyl-tRNA synthetase (AARS) inhibitor. Gln-AMS inhibits glutaminyl-tRNA synthetase (GlnRS) with a K_i of $1.32 \mu M$.

Gln-AMS (TFA) is a type Ia aminoacyl-tRNA synthetase (AARS) inhibitor[2].

[1]. Rath VL, et al. How glutaminyl-tRNA synthetase selects glutamine. Structure. 1998 Apr 15;6(4):439-49. [2]. Fang P, et al. Structural basis for full-spectrum inhibition of translational functions on a tRNA synthetase. Nat Commun. 2015 Mar 31;6:6402.

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

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