

Product Data Sheet

Product Name: FSK hydrochloride

Cat. No.: GC74151

Chemical Properties

Cas. No. 3033987-42-4

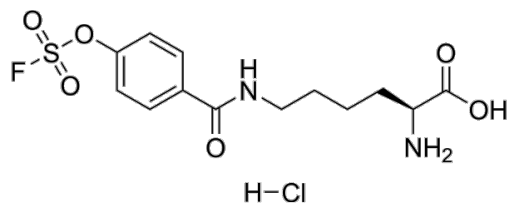
Formula $C_{13}H_{18}ClFN_2O_6S$ M.Wt 384.81

Solubility H_2O : 62.5 mg/mL (162.42 mM; Need ultrasonic) Storage $-20^{\circ}C$, sealed storage, away from moisture

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

FSK drochloride is fluorosulfonyloxybenzoyl-L-lysine, with a long and flexible aryl fluorosulfate-containing side chain that can reach protein sites that are difficult to reach by covalent linkage. FSK drochloride is a modified nanomolecule that targets the epidermal growth factor receptor (EGFR), creating a covalent binding that results in irreversible binding. FSK drochloride captures unknown enzyme-substrate interactions in living cells through genetically encoded chemical cross-linking,

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

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targeting residues beyond Cys, and cross-linking at the binding periphery. FSK drochloride enables the construction of bioreactive SuFEx systems for creating covalent bonds in different proteins in vitro and in vivo.

References:

[1]. Liu J, et al. A Genetically Encoded Fluorosulfonyloxybenzoyl-L-lysine for Expansive Covalent Bonding of Proteins via SuFEx Chemistry. J Am Chem Soc. 2021 Jul 14;143(27):10341-10351.

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