

Steroid sulfatase/17 $\beta$ -HSD1-IN-1

## Chemical Properties

CAS No. :

Formula: C19H18N2O5S

Molecular Weight: 386.42

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Steroid sulfatase/17 $\beta$ -HSD1-IN-1 is a highly effective inhibitor of steroid sulfatase and 17 $\beta$ -hydroxysteroid dehydrogenase type 1 (17 $\beta$ -HSD1) activities, with an IC50 value of 28 nM against cellular human steroid sulfatase. This compound holds significant potential for investigating estrogen-dependent diseases [1].
Targets(IC50)	Others
In vitro	Steroid sulfatase/17 $\beta$ -HSD1-IN-1 (compound 13) exhibits low cytotoxicity, inhibiting HEK-293 cell growth by 12.8% at 20 $\mu$ M for 48 hours. In T47D cells, it effectively inhibits cell growth and 17 $\beta$ -HSD1 activity in a time-dependent manner at concentrations of 50 to 750 nM over 0 to 25 minutes.
In vivo	Steroid sulfatase/17 $\beta$ -HSD1-IN-1 shows high metabolic stability in the human hepatic S9 fraction, with a half-life (t1/2) of 47 minutes and low intrinsic clearance (Clint) at 15 $\mu$ L/min/mg protein [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5879 mL	12.9393 mL	25.8786 mL
5 mM	0.5176 mL	2.5879 mL	5.1757 mL
10 mM	0.2588 mL	1.2939 mL	2.5879 mL
50 mM	0.0518 mL	0.2588 mL	0.5176 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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