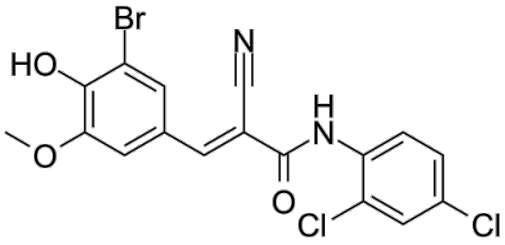
Product Data Sheet

Product Name: Chst15-IN-1
Cat. No.: GC66472

Chemical Properties

Cas. No.	2158198-77-5		
Formula	$C_{17}H_{11}BrCl_2N_2O_3$	M.Wt	442.09
Solubility	DMSO : 50 mg/mL (113.10 mM; ultrasonic and warming and heat to 60°C)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Chst15-IN-1 is a potent reversible covalent **Chst15** inhibitor. Chst15-IN-1 effectively inhibits chondroitin sulfate-E (**CS-E**) sulfation levels and other closely related **glycosaminoglycans (GAG) sulfotransferases**. Chst15-IN-1, as a selective **sulfotransferase** inhibitor, can diminish the inhibitory effects of chondroitin sulfate proteoglycans (CSPGs), and can be used for the stimulation of neuronal repair[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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Chst15-IN-1 (25 μM; 24 hours; Neu7 astrocytes) is selective for sulfotransferases over the myriad of reactive cysteine-containing proteins. Chst15-IN-1 (10 and 25 μM; Neu7 astrocytes) shows a significant dose dependent decrease in cell-surface CS-E expression[1].

Chst15-IN-1 (3.0 mg/kg; i.v.) has a moderate clearance of 21 mL/min/kg, moderate volume of distribution of 0.97 L/kg, and short terminal half-life of 1.6 hours[1].

Animal Model:	Rats
Dosage:	3.0 mg/kg (Pharmacokinetic Analysis)
Administration:	I.v.
Result:	Had a moderate clearance of 21 mL/min/kg, moderate volume of distribution of 0.97 L/kg, and short terminal half-life of 1.6 h.

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