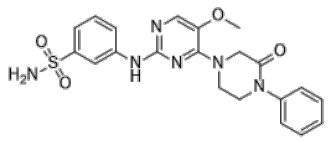
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	CDD-1653
Cat. No.	:	PC-49710
CAS No.	:	3034216-44-6
Molecular Formula	:	$C_{21}H_{22}N_6O_4S$
Molecular Weight	:	454.51
Target	:	TGF beta Receptor (TGFBR)
Solubility	:	10 mM in DMSO



CAS: 3034216-44-6

Biological Activity

CDD-1653 (CDD1653) is a potent, selective inhibitor of BMP type 2 receptor **BMPR2** with IC50 of 2.8 nM, >360-fold over ALK1, and is inactive versus all other type 1 and type 2 TGFβ family kinases.
CDD-1653 inhibited BMP-mediated gene expression in mammalian cell cultures, suppressed BRE-reporter activity in a luciferase reporter (293T-BRE-Luc) assays with IC50 of 6.92 uM.
Pretreatment with CDD-1653 (25 uM) significantly decreased the phosphorylation of SMAD1/5 (pSMAD1/5) in BMP9 stimulation of pSMAD1/5 in HUVECs.
CDD-1653 is not only selective among the TGFβ family but also completely selective against >408 off-target kinases.

References

Ram K Modukuri, et al. ***J Med Chem***. 2023 Jan 31. doi: 10.1021/acs.jmedchem.2c01886.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com