Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

2,5-Dimethyl-celecoxib

Product overview

Name	2,5-Dimethyl-celecoxib
Cat No	HB3717
Purity	>99%
Description	Shows no COX-2 inhibitory function. Analog of celecoxib.

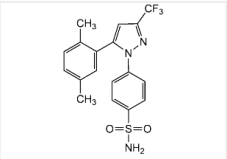
Biological Data

Biological description	Close structural analog of the selective cyclooxygenase-2 (COX-2) inhibitor celecoxib, that lacks COX-2 inhibitory function. Anti-proliferative, anti-tumorigenic and anti-angiogenic. Potent apoptosis inducer in many cancer cell lines. Down-regulates the expression of survivin, cyclins, MMPs and inhibits cyclin-dependent kinase activity. Modulates PDK-1, AKT, GSK3beta, p70 S6K, PKA and MAPKAP-K1alpha.Reduces phosphorylation of ERK1/2 but not AKT T-308 or AKT S-473. Increases intracellular free calcium levels and potently triggers the endoplasmatic reticulum stress response (ESR), activating ER stress-associated proteins GRP78/BiP, CHOP/GADD153 and caspase-4.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-[5-(2,5-dimethylphenyl)-3-(trifluoromethyl)pyrazol-1-yl]benzenesulfonamide
Molecular Weight	395.4
Chemical structure	
Molecular Formula	$C_{18}H_{16}F_3N_3O_2S$
CAS Number	457639-26-8
PubChem identifier	11545682
SMILES	CC1=CC(=C(C=C1)C)C2=CC(=NN2C3=CC=C(C=C3)S(=O)(=O)N)C(F)(F)F
InChi	InChI=1S/C18H16F3N3O2S/c1-11-3-4-12(2)15(9-11)16-10-17(18(19,20)21)23-24(16)13-5-7-14(8-6-13)27(22,25)26/h3-10H,1-2H3,(H2,22,25,26)
InChiKey	NTFOSUUWGCDXEF-UHFFFAOYSA-N
MDL number	MFCD19443858
Appearance	White solid