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DASA-58 (ML203)

产品编号: D50961

CAS: 1203494-49-8

分子式: C19H23N3O6S2

纯度: ≥98%

InChi: InChI=1S/C19H23N3O6S2/c20-15-3-1-4-16(13-15)29(23,24)21-7-2-8-22(10-9-21)30(25,26)17-5-6-18-19(14-17)28-12-11-27-18/h1,3-6,13-14H,2,7-12,20H2

InChi Key: GMHIOMMKSMSRLY-UHFFFAOYSA-N

Smiles: NC1=CC(=CC=C1)S(=O)(=O)N1CCCN(CC1)S(=O)(=O)C1=CC2OCCOC=2C=C1

外观: 固体粉末

作用通路: Pyruvate Kinase

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: DASA-58 (ML203) is a potent and selective Pyruvate kinase M2 (PKM2) activator with EC50 ~38 nM. It can stabilize pyruvate kinase subunit interactions, promote PKM2 tetramer formation and prevent inhibition by phosphotyrosine signaling. It can alter metabolism in cultured cells, and inhibit xenograft tumor growth in vivo. DASA-58 inhibits LPS-induced Hif-1α and IL-1β, as well as the expression of a range of other Hif-1α-dependent genes. In PC3 cells, DASA-58 impairs stromal-induced EMT program by restoring PK activity and abrogating the nuclear translocation of PKM2, as well as its association with HIF-1α. It also dramatically reduces (~6-fold) CAFs-induced lung metastases formation in PC3 cells.