



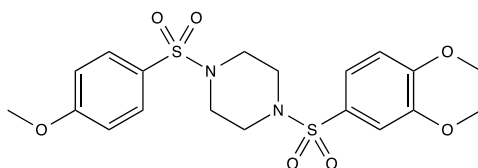
Catalog # 10-4561

BML283

CAS# 562867-96-3

ML083; 1-(2,3-Dihydrobenzo[b][1,4]dioxin-6-ylsulfonyl)-4-(4-methoxyphenylsulfonyl)piperazine

Lot # JKM1107



BML283 is a selective activator of the Tumor Specific M2 Isoform of Pyruvate Kinase (PKM2) - $AC_{50} = 111\text{nM}$.¹ PKM2 activity is downregulated in most cancer cells leading to a decrease in catabolic metabolism and an increase in anabolic metabolism.^{2,3} BML283 is an important tool for studying the effects of PKM2 and cancer metabolism.

- 1) Boxer *et al.*, (2010), *Evaluation of N,N'-Diarylsulfonamides as Activators of the Tumor Specific M2 Isoform of Pyruvate Kinase*; J.Med.Chem. **53** 1048
- 2) Israelsen *et al.* (2013), *PKM2 Isoform-Specific Deletion Reveals A Differential Requirement for Pyruvate Kinase in Tumor Cells*; Cell **155** 397
- 3) Wong *et al.* (2015), *PKM2 contributes to cancer metabolism*; Cancer Lett. **356** 184

PHYSICAL DATA

Molecular Weight:	454.51
Molecular Formula:	C ₁₉ H ₂₂ N ₂ O ₇ S ₂
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (10 mg/ml).
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 2 months.

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