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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



DASA-58

Item No. 13941

CAS Registry No.: 1203494-49-8

Formal Name: 3-[[4-[(2,3-dihydro-1,4-benzodioxin-6-yl)sulfonyl]hexahydro-1H-1,4-diazepin-1-yl]sulfonyl]-benzenamine

Synonyms: ML-203, NCGC00185916

MF: $C_{19}H_{23}N_3O_6S_2$

FW: 453.5

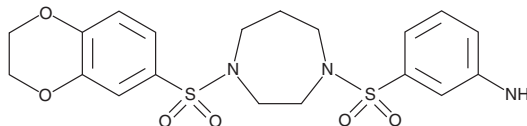
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 211, 246, 292 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

DASA-58 is supplied as a crystalline solid. A stock solution may be made by dissolving the DASA-58 in the solvent of choice. DASA-58 is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 30 mg/ml.

Description

DASA-58 is a selective activator of pyruvate kinase M2 (PKM2; $AC_{50} = 38$ nM *in vitro*, $EC_{50} = 19.6$ μ M in cells).¹ DASA-58 converts PKM2 to a constitutively active enzyme state that is resistant to inhibition by tyrosine-phosphorylated proteins.¹ Through its effects on PKM2, DASA-58 blocks the induction of HIF-1 α by lipopolysaccharide in bone marrow-derived macrophages, suppressing the expression of several HIF-1 α -dependent targets, including IL-1 β .² It also impairs metastatic dissemination of prostate cancer PCa cells in SCID mice.³

References

1. Anastasiou, D., Yu, Y., Israelsen, W.J., et al. Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. *Nat. Chem. Biol.* **8**, 839-847 (2012).
2. Palsson-McDermott, E. M., Curtis, A. M., Xavier, R. J., et al. Pyruvate kinase M2 regulates Hif-1 α activity and IL-1 β induction and is a critical determinant of the Warburg Effect in LPS-activated macrophages. *Cell Metab.* **21**, 65-80 (2015).
3. Giannoni, E., Taddei, M. L., Morandi, A., et al. Targeting stromal-induced pyruvate kinase M2 nuclear translocation impairs OXPHOS and prostate cancer metastatic spread. *Oncotarget* **6**(27), 24061-24074 (2015).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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