



2,3-Butanedione 2-Monoxime

Cat. No.:	OB0225WX-1638
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	500 mg; 1 g; 5 g; 10 g

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	2,3-Butanedione 2-Monoxime is a small molecule nucleophile that functions as a specific inhibitor of skeletal and cardiac muscle cross-bridge cycling and contraction.
Synonym	Diacetyl monoxime; 57-71-6; 2,3-butanedione monoxime; Biacetyl monoxime; Biacetyl monooxime; Diacetylmonoxime; 2,3-Butanedione, monooxime; Diacetylmonooxime; 2,3-Butanedione-2-monoxime; 2,3-Butanedione 2-oxime; 2-Oximino-3-butanone; 3-Oximino-2-butanone; 2,3-Butanedione oxime; DAM (oxime); (3E)-3-hydroxyiminobutan-2-one; Isonitrosoethyl methyl ketone; 2,3-Butanedione 3-monoxime; 3-oxo-2-butanone oxime; (E)-3-(hydroxyimino)butan-2-one; 2,3-Butanedione, 2-oxime; MFCD0000 2116; (2E)-butane-2,3-dione oxime; BDM; 2,3-Butanedione monooxime; (Z)-3-(Hydroxyimino)butan-2-one
CAS No.	57-71-6
Compound CID	6409633
Formula	C ₄ H ₇ NO ₂
Formula Weight	101.1

Specification

Relative Density	1.2085 g/cm ³
IUPAC Name	(3E)-3-Hydroxyiminobutan-2-one
InChI	InChI=1S/C4H7NO2/c1-3(5-7)4(2)6/h7H,1-2H3/b5-3+



InChI Key	FSEUPUDHEBLWJY-HWKANZROSA-N
SMILES string	<chem>C/C(=N\O)/C(=O)C</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	2,3-Butanedione 2-Monoxime is used in physiological research as a non-specific phosphatase activator and myosin ATPase inhibitor to study the regulation of muscle contraction and cardiac function.

Library Information

Target	Akt
Receptor	Akt
Pathways	Cytoskeletal signaling; PI3K/Akt/mTOR signaling
Plate Number	AOCL-22
Plate Location	a3
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	50 mg/mL; 494.54 mM