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DATASHEET

Ds(+) -threo -Isocitric acid trisodium salt

Product overview

Name	Ds(+) -threo -Isocitric acid trisodium salt
Cat No	HB4633
Purity	>98%
Description	Anticoagulant that retains platelets functionality

Biological Data

Biological description	Anticoagulant that retains platelets functionality. Buffers Ca ²⁺ activity in physiological range (~1mM). Bypasses the metabolic blockade, may permit heme biosynthesis but does not suffice to reverse the iron-restriction response. Stabilizes the iron-sulfur cluster and is predicted to restore aconitase to its 'high iron' conformation and thereby dissociates the PKC-associated signaling complexes whose hyperactivation impairs Epo responsiveness. Binds IDH (isocitrate dehydrogenase), an excellent candidate for participating, along with aconitase and PKC, in an iron restriction signalosome. Contributes to heme biosynthesis which may account for its greater potency in restoring erythroid differentiation.
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Solubility & Handling

Storage instructions	+4°C
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	(1R,2S)-1-Hydroxy-1,2,3-propanetricarboxylic acid
Molecular Weight	258.1
Chemical structure	
CAS Number	903507-52-8
InChiKey	HWMVXEKEEAIYGB-UHFFFAOYSA-K
Appearance	White solid