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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 Ca2+ 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.

Solubility & Handling

Storage instructions Storage of solutions +4°C

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Molecular Weight Chemical structure (1R,2S)-1-Hydroxy-1,2,3-propanetricarboxylic acid

258.1 OH NaO₂C

CAS Number InChiKey Appearance

903507-52-8 HWMVXEKEEAIYGB-UHFFFAOYSA-K

White solid