

Mutant Isocitrate Dehydrogenase 1 R132H from Human, Recombinant

Cat. No. NATE-1649

Lot. No. (See product label)

Introduction

Description

Mutations of the cytosolic IDH 1 are a common feature in primary human brain cancers. Arginine 132 (R132) of IDH is highly conserved among different isoforms of IDH and is most commonly mutated to Histidine. Mutation of IDH1 R132H leads to accumulation of R(-)-2-hydroxyglutarate (2HG), which correlates with an increased risk for malignant brain tumors.

Synonyms

Isocitrate dehydrogenase [NADP] cytoplasmic mutant, R132H; IDH 1 R132H

Product Information

Species

Human

Source

E. coli

Form

Lyophilized powder with additives

Formulation

In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.

Molecular Weight

50.9 kDa

Purity

> 90% by SDS-PAGE

Activity

>500 mU/mg

Unit Definition

One unit is the amount of enzyme that will convert 1.0 μ mole of NADPH to NADP+ per minute at pH 7.4 at 25°C.

Usage and Packaging

Reconstitution

Resuspend lyophilized protein in 30% glycerol glycerol/water at 2 mg/ml and then further diluted in future applications.

Storage and Shipping Information

Storage

Lyophilized protein is stable for 1 year at -20°C. Once reconstituted aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.