Creative Enzymes®

UDP-Glc 4-epimerase from E. coli K12, Recombinant

Cat. No. NATE-1498

Lot. No. (See product label)

Introduction

Description	The enzyme UDP-glucose 4-epimerase (EC 5.1.3.2), also known as UDP-galactose 4-epimerase or GALE, is a homodimeric epimerase found in bacterial, fungal, plant, and mammalian cells. This enzyme performs the final step in the Leloir pathway of galactose metabolism, catalyzing the reversible conversion of UDP-galactose to UDP-glucose. GALE tightly binds nicotinamide adenine dinucleotide (NAD+), a co-factor required for catalytic activity.
Synonyms	Galactowaldenase; UDP-galactose 4-epimerase; Uridine diphosphate galactose 4-epimerase; Uridine diphospho-galactose-4-epimerase; UDP-glucose 4-epimerase; EC 5.1.3.2; UDP-galactose 4-epimerase; GALE

Product Information

Species	E. coli K12
Source	E. coli
EC Number	EC 5.1.3.2
CAS No.	9032-89-7
Molecular Weight	40 kDa
Purity	min 95% by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of UDP-Gal from UDP-Glc per minute at 37 °C.