Creative Enzymes®

Recombinant Human Homogentisate 1,2-dioxygenase

Cat. No. EXWM-0568

Lot. No. (See product label)

Introduction

Description	Homogentisate 1,2-dioxygenase (homogentisic acid oxidase, homogentisate oxidase, homogentisicase) is an enzyme which catalyzes the conversion of homogentisate to 4-maleylacetoacetate. Homogentisate 1,2-dioxygenase or HGD is involved in the catabolism of aromatic rings, more specifically in the breakdown of the amino acids tyrosine and phenylalanine.

Product Information

Species	Human
Source	E.coli
Form	Liquid or Lyophilized powder
EC Number	EC 1.13.11.5
CAS No.	9029-49-6
Molecular Weight	54.0 kDa
Purity	Greater than 85% as determined by SDS-PAGE.
Activity	Not detected
Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Reaction	homogentisate + O2 = 4-maleylacetoacetate
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.