

Biocatalysis Enzyme Product Specification Sheet

Cat. No.:	PRO-AKR(007)	add this product to cart
LOT:	2011-1	view other aldo-keto reductases
Activity:	Aldo-keto reductase	
Synonyms:	Ketoreductase, KRED, AKR	
Source organism:	Disclosed on signing Biocatalysis Enzyme Toolkit Agreement	
Enzyme Commission No.:	1.-	
Activity:	Characterisation underway, see summary on Aldo-Keto Reductase (KRED) Panel summary page	
Specific activity:	-	
Purity:	See SDS-PAGE gel image below	
Form and storage:	Supplied as a freeze-dried powder / cake, store at -20°C (shipped at room temperature)	
pH optimum:	Not determined	
Temperature optimum:	Originates from thermophilic microorganism	
[Enzyme]:	~ 10 % (w/w) – see SDS-PAGE gel image	
Sequence length:	257 amino acids	
Accession No.:	-	
Molecular weight:	31219.7 Da (theoretical) ~ 31000 Da (observed by SDS-PAGE) - (observed by mass spectrometry)	
Biological function:	Catalyses the inter-conversion of ketones and secondary alcohols (or aldehydes and primary alcohols)	
Potential application(s):	Biocatalysis , fundamental research	
Comments:	This biocatalyst can be acquired either individually by regular purchase, or as a component of the Biocatalysis Enzyme Toolkit	
Usage:	Bring vial and contents to room temperature before opening. See MSDS sheet	
Assay:	-	

Primary sequence:

Disclosed on signing *Biocatalysis Enzyme Toolkit* Agreement

Literature:

Proprietary GRASP™ high-throughput cloning technology has been employed to evenly sample natural substrate specificity from the public and in-house genomics databases, and thus no scientific literature is available in general. In the vast majority of cases preparation for this novel Aldo-Keto Reductase (KRED) Panel will be the first time many of the corresponding genes will have been exploited from nature

SDS-PAGE analysis: