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Biocatalysis Enzyme Product Specification Sheet

Cat. No.:	PRO-AKR(004)
LOT:	2011-1
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 mesophilic microorganism
[Enzyme]:	~ 10 **%** (w/w) – see SDS-PAGE gel image
Sequence length:	270 amino acids
Accession No.:	-
Molecular weight:	33039.2 Da (theoretical) ~ 33000 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:	-

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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: