

Nomenclature for the Aldo-Keto Reductase superfamily

AKR

Aldo-Keto Reductase

- Amino acid comparison

Arabic #
(1,2,3,...)

Family

- Members have <40% amino acid identity with other families
- 15 families satisfy criterion

Letter
(A,B,C,...)

Subfamily

- Defined by >60% amino acid identity among subfamilies
- 9 of 15 include multiple subfamilies

Arabic #
(1,2,3,...)

Unique Protein Sequence

- Proteins with >97% amino acid identity are alleles, unless they have different enzymatic activities or distinct 3' untranslated regions (UTR)

Stoichiometry
(1:3)

Multimers

- Multimers now exist in the AKR6 and AKR7 families
- Unique protein names are listed with stoichiometry of the multimer