Recombinant Human Diamine Oxidase/AOC1 Protein (His Tag)

Catalog Number:PKSH032352

Note: Centrifuge before opening to ensure complete recovery of vial contents.

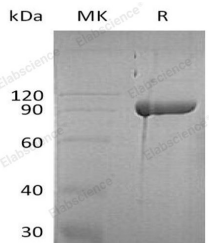
Description

Synonyms	Amiloride-sensitive amine oxidase [copper-containing];DAO;Diamine oxidase;Amiloride-binding protein 1;Amine oxidase copper domain-containing protein 1;Histaminase;Kidney amine oxidase;KAO;AOC1;ABP1;DAO1
Species	Human
Expression Host	HEK293 Cells
Sequence	Glu20-Val751
Accession	AAH14093.1
Calculated Molecular Weight	84.4 kDa
Observed molecular weight	90 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Amiloride-sensitive amine oxidase (AOC1) belongs to the copper/topaquinone oxidase family. The protein exists as homodimer by disulfide and mainly located in placenta and kidney. AOC1 catalyzes the degradation of compounds such as putrescine, histamine, spermine, and spermidine, substances involved in allergic and immune responses, cell proliferation, tissue differentiation, tumor formation, and possibly apoptosis. Placental DAO is thought to play a role in the regulation of the female reproductive function. The activity of this protein can be inhibited by amiloride in a competitive manner. It is inhibited by amiloride, a diuretic that acts by closing epithelial sodium ion channels.

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