

KsdD Protein, Mycobacterium smegmatis, Recombinant (His & Myc)

General Information

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| Synonyms: | ksdD;3-oxo-Delta(4)-steroid 1-dehydrogenase (KSTD);3-keto-Delta(4)-steroid Delta(1)-dehydrogenase (KSDD);3-oxosteroid 1-dehydrogenase |
| Protein Construction: | 1-569 aa |
| Species: | Mycobacterium smegmatis |
| Expression Host: | E. coli |
| Accession: | A0R459 |
| Molecular Weight: | 68.9 kDa (predicted) |
| AA Sequence: | MFYMTGQEYDVVVVVGSGAAGMVAALTAAHQGLSTVVVEKAPHYGGSTARSGGGVWIPNNEILKRDGVKDT PDEARKYLHAIIGDVVPAEKIDTYLDRGPEMLSFVLKHSPLKLCWVPGYSDYYPETPGGKPTGRSVEPKPFDA NKLGPDLKGLEPPYGKVPMMNMVVMQQDYVRLNQLKRHPRGVLRLSLKVGIRATWGKVSGKNLVGMGRALIA PLRIGLREAGVPVLLNTALTDLYVEDGRVLGIYVRDTTAGDDAEPRLIRARHGVLGSGGFEHNEQMRVKYQR APITTEWTVGAVANTGDGIVAAEKLGALELMEDAWWGPTVPLVGAPWFALSERNSPGSIIVNMSGKRFMN ESMPYVEACHHMYGGQYGGQPGPGENIPAWLIFDQQYRDYIFAGLQPGQRIPSKWLESGVIVKADTLVELA EKTGLPADQFTSTIERFNGFARSGVDEDFHRGESAYDRYGDPTNKPNPNLGEIKHGPFYAAKMVPGDLGTK GGIRTDVRGRALRDDDSVIEGLYAAGNVSSPVMGHTYPPGGTIGPAMTFGYLAALDIAATAAASRKG |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 85% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | 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. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the elimination of the C-1 and C-2 hydrogen atoms of the A-ring from the polycyclic ring structure of 3-ketosteroids. Is also involved in the formation of 1,4-androstadiene-3,17-dione (ADD) from 4-androstene-3,17-dione (AD) to.

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