

## 32-8578: Recombinant Human d(3,5)-d(2,4)-Dienoyl-CoA Isomerase, Mitochondrial/ECH1

**Gene :** ECH1  
**Gene ID :** 1891  
**Uniprot ID :** Q13011

### Description

Source: E.coli.  
MW :34.45kD.

Recombinant Human ECH1 is produced by our E.coli expression system and the target gene encoding Thr34-Leu328 is expressed with a 6His tag at the N-terminus. Human delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase(ECH1) is a member of the hydratase/isomerase superfamily and contains a C-terminal peroxisomal targeting sequence and localizes to peroxisomes. ECH1 shows high sequence similarity to enoyl-CoA hydratases of several species, particularly within a conserved domain characteristic of these proteins. The rat ortholog localizes to the matrix of both the peroxisome and mitochondria. It can isomerize 3-trans, 5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomerase. ECH1 plays an important role in the auxiliary step of the fatty acid beta-oxidation pathway.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM Tris,100mM NaCl,10% Glycerol,pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMTGSSAQEEASGVALGEAPDHSYESLRVTSAQKHVLHVQLNRPNKRNAMNK  
VFWREMVVECFNKISR DADCRAVVISGAGKMFTAGIDLMDMASDILQPKGDDVARISWYLRDIITRYQETFNVIE  
RCPKPVIAAVHGGCIGGGVDLVTACDIRYCAQDAFFQVKEVDVGLAADVGTQLRQPKVIGNQSLVNELAFTARK  
MMADEALGSGLVSRVFPDKEVMLDAALALAAEISSKSPVAVQSTKVNLLYSRDHSVAESLNYVASWNMSMLQ  
TQDLVKSVQATTENKELKTVTFSKL

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.