

Native Human Myeloperoxidase Isoform C

Cat. No. NATE-0461 Lot. No. (See product label)

Introduction	
Description	Myeloperoxidase (MPO) is a peroxidase enzyme that in humans is encoded by the MPO gene on chromosome 17. MPO is most abundantly expressed in neutrophil granulocytes (a subtype of white blood cells), and produces hypohalous acids to carry out their antimicrobial activity. It is a lysosomal protein stored in azurophilic granules of the neutrophil and released into the extracellular space during degranulation. MPO has a heme pigment, which causes its green color in secretions rich in neutrophils, such as pus and some forms of mucus.
Applications	Protein Cystalline Research
Synonyms	MPOC; MPO C; Myeloperoxidase Isoform C; EC 1.11.1.7; 9003-99-0
Product Information	
Species	Human
Source	Human Neutrophils
Form	Liquid
EC Number	EC 1.11.1.7
CAS No.	9003-99-0
Molecular Weight	146 kDa
Purity	> 96% (SDS-PAGE)
Activity	Typically > 1 ,000 U/mg protein
Pathway	C-MYB transcription factor network, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; IL23-mediated signaling events, organism-specific biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Selenium Pathway, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem
Function	chromatin binding; heme binding; heparin binding; metal ion binding; oxidoreductase activity; peroxidase activity
Unit Definition	One unit of Myeloperoxidase will catalyze the consumption of one micromole of hydrogen peroxide and the production of 1/4 micromole of tetraguaiacol per minute at pH 7.0 and 25°C.
Storage and Shipping Information	

Storage

2-8°C