

**Product Name** : 4-Methylamino antipyrine

**Synonyms** : —

**Cat No.** : M26030

**CAS Number** : 519-98-2

**Molecular Formula** : C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O

**Formula Weight** : 217.3

**Chemical Name** : —

**Description**

4-Methylamino antipyrine is an active metabolite of Metamizole. Metamizole is a pyrazolone non-steroidal anti-inflammatory drug (NSAID) and inhibits COX. 4-Methylamino antipyrine has analgesic, antipyretic, and relatively weak anti-inflammatory properties. (In Vitro): At room temperature and in an atmosphere with oxygen, Metamizole is spontaneously, nonenzymatically converted to 4-Methylamino antipyrine. Subsequently, the N-methyl side chain of 4-Methylamino antipyrine is oxidized to yield 4-formylaminoantipyrine, which is further converted to 4-aminoantipyrine. (In Vivo): Eight healthy male piglets are administered Metamizole (100 mg/kg) intramuscularly. 4-Methylamino antipyrine plasma concentrations are quantitatively detectable from 0.25 to 48 h. The average maximum concentration of 4-Methylamino antipyrine is 47.59 mg/mL. The average half-lives is 8.57 h for 4-Methylamino antipyrine.

**Pathway** : Chromatin/Epigenetic

**Target** : COX

**Receptor** : CRAC channel

**Solubility** : —

**SMILES** : CNc1c(C)n(C)n(-c2ccccc2)c1=O

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :