

Product Name	: Bromfenac sodium
Synonyms	: Bromfenac Sodium Sesquihydrate; AHR 10282B
Cat No.	: M10754
CAS Number	: 120638-55-3
Molecular Formula	: C15H11BrNNaO3
Formula Weight	: 356.15
Chemical Name	: Disodium 2-[2-amino-3-(4-bromobenzoyl)phenyl]acetate trihydrate
Description	<p>Bromfenac Sodium is the sodium salt form of bromfenac, a nonsteroidal anti-inflammatory drug (NSAID) with analgesic and anti-inflammatory activities. Upon ophthalmic administration, bromfenac binds to and inhibits the activity of cyclooxygenase II (COX II), an enzyme which converts arachidonic acid to cyclic endoperoxides, precursors of prostaglandins (PG). By inhibiting PG formation, bromfenac is able to inhibit PG-induced inflammation, thereby preventing vasodilation, leukocytosis, disruption of the blood-aqueous humor barrier, an increase in vascular permeability and an increase in intraocular pressure (IOP).</p>
Pathway	: Chromatin/Epigenetic
Target	: COX
Receptor	: COX-2
Solubility	: DMSO: 10 mM
SMILES	: O=C([O-])CC1=CC=CC(C(C2=CC=C(Br)C=C2)=O)=C1N.O=C([O-])CC3=CC=CC(C(C4=CC=C(Br)C=C4)=O)=C3N.[H]O[H]. [H]O[H].[H]O[H].[Na+].[Na+]
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1.Shimura M, Yasuda K. Br J Ophthalmol. 2015 Feb;99(2):215-9.

