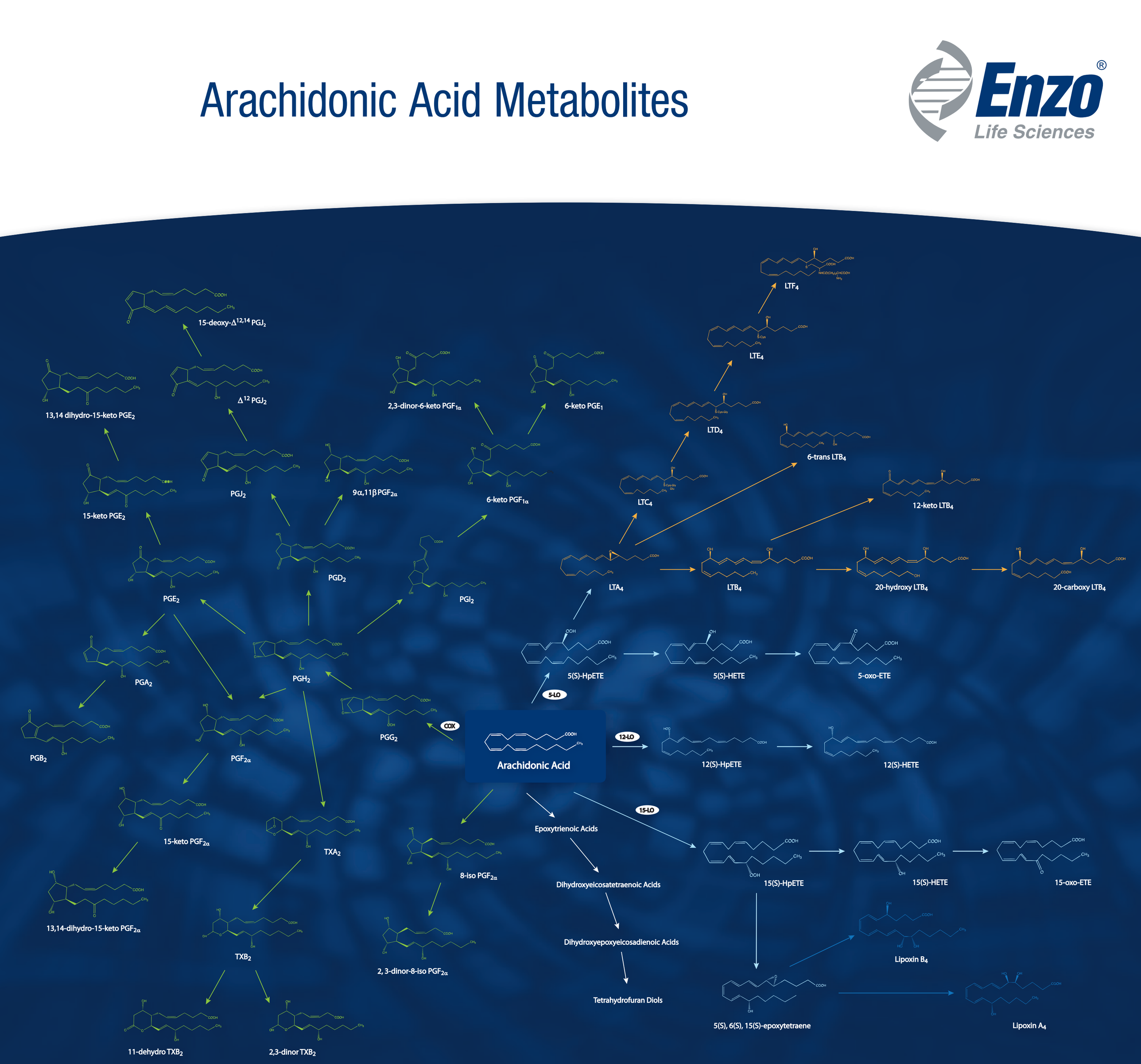
Arachidonic Acid Metabolites



Molecular Formula	Formula Weight	CAS Number
5(S)-HETE	$C_{20}H_{32}O_3$	320.5	70608-72-9
5(S)-HpETE	$C_{20}H_{32}O_4$	336.5	71774-08-8
5-oxo-ETE	$C_{20}H_{30}O_3$	318.5	106154-18-1
6-keto-PGE_1	$C_{20}H_{32}O_6$	368.5	67786-53-2
6-keto-$PGF_{1\alpha}$	$C_{20}H_{34}O_6$	370.5	58962-34-8
6-trans-LTB_4	$C_{20}H_{32}O_4$	336.5	71652-82-9
8-iso-$PGF_{2\alpha}$	$C_{20}H_{34}O_5$	354.5	27415-26-5
9α,11β-$PGF_{2\alpha}$	$C_{20}H_{34}O_5$	354.5	38432-87-0
11-dehydro-TXB_2	$C_{20}H_{32}O_6$	368.5	67910-12-7
12(S)-HETE	$C_{20}H_{32}O_3$	320.5	54397-83-0
12(S)-HpETE	$C_{20}H_{32}O_4$	336.5	71774-10-2
13(S)-HODE	$C_{18}H_{32}O_3$	296.5	29623-28-7
13,14-dihydro-15-keto-PGE_2	$C_{20}H_{32}O_5$	352.5	363-23-5
13,14-dihydro-15-keto-$PGF_{2\alpha}$	$C_{20}H_{34}O_5$	354.5	27376-76-7
15(S)-HETE	$C_{20}H_{32}O_3$	320.5	54845-95-3
15(S)-HpETE	$C_{20}H_{32}O_4$	336.5	70981-96-3
15-deoxy-$\Delta^{12,14}$-PGJ_2	$C_{20}H_{28}O_3$	316.5	87893-55-8
15-keto-PGE_2	$C_{20}H_{30}O_5$	350.5	26441-05-4
15-keto-$PGF_{2\alpha}$	$C_{20}H_{32}O_5$	352.5	35850-13-6
15-oxo-ETE	$C_{20}H_{30}O_3$	318.5	81416-72-0
2,3-dinor-TXB_2	$C_{18}H_{30}O_6$	342.4	63250-09-9

Molecular Formula	Formula Weight	CAS Number
20-carboxy-LTB_4	$C_{20}H_{30}O_6$	366.5	80434-82-8
20-HETE	$C_{20}H_{32}O_3$	320.5	79551-86-3
20-hydroxy-LTB_4	$C_{20}H_{32}O_5$	352.5	79516-82-8
Arachidonic Acid	$C_{20}H_{32}O_2$	304.5	506-32-1
$\Delta^{12,14}$-PGJ_2	$C_{20}H_{30}O_4$	334.5	87893-54-7
Lipoxin A_4	$C_{20}H_{32}O_5$	352.5	89663-86-5
Lipoxin B_4	$C_{20}H_{32}O_5$	352.5	98049-69-5
LTB_4	$C_{20}H_{32}O_4$	336.5	71160-24-2
LTC_4	$C_{30}H_{47}N_3O_9S$	625.8	72025-60-6
LTD_4	$C_{25}H_{40}N_2O_6S$	496.7	73836-78-9
LTE_4	$C_{23}H_{37}NO_5S$	439.7	75715-89-8
LTF_4	$C_{28}H_{44}N_2O_8S$	568.7	83851-42-7
PGA_2	$C_{20}H_{30}O_4$	334.5	13345-50-1
PGB_2	$C_{20}H_{30}O_4$	334.5	13367-85-6
PGD_2	$C_{20}H_{32}O_5$	352.5	41598-07-6
PGE_1	$C_{20}H_{34}O_5$	354.5	745-65-3
PGE_2	$C_{20}H_{32}O_5$	352.5	363-24-6
$PGF_{2\alpha}$	$C_{20}H_{34}O_5$	354.5	38562-01-5
PGG_2	$C_{20}H_{32}O_6$	368.5	51982-36-6
PGH_2	$C_{20}H_{32}O_5$	352.5	42935-17-1
PGJ_2	$C_{20}H_{30}O_4$	334.5	60203-57-8
TXB_2	$C_{20}H_{34}O_6$	370.5	54397-85-2

In response to receptor signaling, phospholipid hydrolysis causes arachidonic acid release from cell membranes. This fatty acid then acts as a precursor for a number of molecules, including prostaglandins, thromboxanes, leukotrienes and lipoxygenase products. These metabolites are involved in a multitude of physiological processes important in inflammation, oxidative stress, and cell signaling.

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