Figure 1. The kynurenine pathway

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| L- tryptophan |

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| N- formylkynurnine |

kynureninase

kynurenine amino-transferase

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| L- kynurenine |

Kynurenine 3- hydroxylase

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| Kynurenic acid | |  | | --- | | 3- hydroxykynrenine |   kynureninase | Anthranilic acid |

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| 3- hydroxyanthranilic acid |

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| Acroleyl aminofumarate |

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| Quinolinic acid |  | Aminomuconic semialdehyde |

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| Nicotinic acid |  | Picolinic acid |

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| Nicotinamide adenine dinucleotide |